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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/646,802	10/17/2000	Petteri Putkiranta	P3439US00	1591
30671 7590 10/27/2010 DITTHAVONG MORI & STEINER, P.C. 918 Prince Street Alexandria, VA 22314				
EXAMINER HO, HUY C				
ART UNIT 2617		PAPER NUMBER		
NOTIFICATION DATE 10/27/2010		DELIVERY MODE ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@dcpatent.com

Office Action Summary

Application No.

09/646,802

Applicant(s)

PUTKIRANTA, PETTERI

Examiner

HUY C. HO

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08/13/2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5-14, 16-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 5-14 and 16-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 September 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/C)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 5, 7, 11, 13, 14, 18, 20, 22-25 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 5, 7-14, 16-25** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Buhrmann et al. (US Patent No. 5,950,125)** and further in view of **Lee et al. (US Patent No. 5,974,328)**.

Consider claim 5, (Currently Amended) Buhrmann discloses an apparatus (*Buhrmann, the abstract*), comprising:

at least one processor (*Buhrmann, col 7 lines 1-15, a cellular phone comprising a processor*);

and

at least one memory including computer program code, the at least one memory and the computer program code configured to, with the at least one processor (*Buhrmann, col 7 lines 7-54, a cellular phone*), cause the apparatus to perform at least the following:

roaming in cells of a cellular radio network and the apparatus has detected that it is in a

localized service area defined independently from cells (*Buhrmann, figures 1-4A, col 7 lines 1-67, col 8 lines 1-67, a mobile phone roaming across different user zones providing various featured services desirable to the owner's mobile phone, the services are stored in network database storage in different categories in the service profile database for respective user zones*).

base station covering the localized service area (*Buhrmann, figures 1-3, col 7 lines 1-67, col 8 lines 1-67*); and

receive a service selection localized based upon the localized service area and offered to the apparatus by a communications system including the base station (*Buhrmann, figures 1-3, col 7 lines 1-67, col 8 lines 1-67*).

Buhrmann does not teach the computed geographical location is computed independent from a global positioning system GPS.

Lee teaches a mobile phone roams in a cellular network, the mobile phone independently identifies its current location by comparing the received system IDs, or network IDs or group IDs of the cellular network with its previous stored information in its memory (*see Lee, col 1 lines 50-60, col 2 lines 23-35, col 3 lines 5-25, col 6 lines 4-40*), thus Lee discloses the apparatus generates its location independent from a GPS receiver.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify teachings of Buhrmann by incorporating teachings of Lee that a mobile device identifies where it is in a cellular network by comparing the network IDs/group IDs/system IDs associated with preferred service providers, with its stored information in its memory, thus providing rapid system access for the cellular phones when roaming in the cellular network.

Consider claim 7, (Currently Amended) Buhrmann discloses a method comprising:

the mobile station is roaming in cells of a cellular radio network and the mobile station has detected that it is in a localized service area defined independently from cells (*Buhrmann, figures 1-4A, col 7 lines 1-67, col 8 lines 1-67, a mobile phone roaming across different user zones providing various featured services desirable to the owner's mobile phone, the services are stored in network database storage in different categories in the service profile database for respective user zones*);

a base station covering the localized service area generating information about the arrival of the mobile station in the localized service area (*Buhrmann, figures 1-3, col 7 lines 1-67, col 8 lines 1-67*); and

causing, at least in part, reception of a service selection localized based upon the localized service area and offered to said mobile station by a communications system including the base station providing (*Buhrmann, figures 1-3, col 7 lines 1-67, col 8 lines 1-67*).

Buhrmann does not teach the computed geographical location is computed independent from a global positioning system GPS.

Lee teaches a mobile phone roams in a cellular network, the mobile phone independently identifies its current location by comparing the received system IDs, or network IDs or group IDs of the cellular network with its previous stored information in its memory (*see Lee, col 1 lines 50-60, col 2 lines 23-35, col 3 lines 5-25, col 6 lines 4-40*), thus Lee discloses the apparatus generates its location independent from a GPS receiver.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify teachings of Buhrmann by incorporating teachings of Lee that a mobile device identifies where it is in a cellular network by comparing the network IDs/group IDs/system IDs associated with preferred service providers, with its stored information in its memory, thus providing rapid system access for the cellular phones when roaming in the cellular network.

Consider claim 22, (Currently Amended) Buhrmann teaches a computer-readable storage medium carrying one or more sequences of one or more instructions which, when executed by one or more processors (*Buhrmann, the abstract, col 10 lines 65-67*), cause an apparatus to at least perform the following steps:

the apparatus is roaming in cells of a cellular radio network and that indicates the apparatus has detected that it is in a localized service area (*Buhrmann, figures 1-4A, col 7 lines 1-67, col 8 lines 1-67, a mobile phone roaming across different user zones providing various featured services desirable to the owner's mobile phone, the services are stored in network database storage in different categories in the service profile database for respective user zones*);

transmitting the message to a base station covering the localized service area (*Buhrmann*, figures 1-3, col 7 lines 1-67, col 8 lines 1-67); and

receiving a service selection localized based upon the localized service area and offered to the apparatus by a communications system including the base station (*Buhrmann*, figures 1-3, col 7 lines 1-67, col 8 lines 1-67).

Buhrmann does not teach the computed geographical location is computed independent from a global positioning system GPS.

Lee teaches a mobile phone roams in a cellular network, the mobile phone independently identifies its current location by comparing the received system IDs, or network IDs or group IDs of the cellular network with its previous stored information in its memory (*see Lee*, col 1 lines 50-60, col 2 lines 23-35, col 3 lines 5-25, col 6 lines 4-40), thus Lee discloses the apparatus generates its location independent from a GPS receiver.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify teachings of Buhrmann by incorporating teachings of Lee that a mobile device identifies where it is in a cellular network by comparing the network IDs/group IDs/system IDs associated with preferred service providers, with its stored information in its memory, thus providing rapid system access for the cellular phones when roaming in the cellular network.

Consider claim 8, (Currently Amended) A method of claim 7, Buhrmann, as modified by Lee, further teaches wherein in response to the detection of information about the arrival of the mobile station in the localized service area a predetermined additional one or more services are offered to the mobile station (*Buhrmann*, col 2 lines 40-50, *additional services provided to the user from different user zones, e.g., traffic reports, weather warnings, advertisements*).

Consider claim 9, (Currently Amended) A method of claim 8, Buhrmann, as modified by Lee, further teaches wherein said additional one or more services involves sending of announcements to the mobile station (*Buhrmann*, col 2 lines 25-55, col 7 lines 15-67).

Consider claim 10, (Previously Presented) A method of claim 7, Buhrmann, as modified by Lee, further teaches wherein in response to the detection of information about the arrival of a mobile

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station in the localized service area- the quantity of services offered to the mobile station by the communications system is reduced (*Buhrmann, col 9 lines 1-62*).

Consider claim 11, (Currently Amended) A method of claim 7, Buhrmann, as modified by Lee, further teaches:

determining to transmit of a message indicating the arrival of a mobile station in the localized service area to a service server, for checking which one or more services to be received at the mobile station in that localized service area (*Buhrmann, figures 1-4A, col 7 lines 1-67, col 8 lines 1-67, a mobile phone roaming across different user zones providing various featured services desirable to the owner's mobile phone, the services are stored in network database storage in different categories in the service profile database for respective user zones*); and

receiving one or more of services to the mobile station (*Buhrmann, figures 1-4A, col 7 lines 1-67, col 8 lines 1-67*).

Consider claim 12, (Currently Amended) A method of claim 11, Buhrmann, as modified by Lee, further teaches wherein the request for the services offered is transmitted to at least one or more application servers providing services, and each of the application servers provides one or more of the requested services to the mobile station (*Buhrmann, figures 1-4A, col 7 lines 1-67, col 8 lines 1-67, a mobile phone roaming across different user zones providing various featured services desirable to the owner's mobile phone, the services are stored in network database storage in different categories in the service profile database for respective user zones*).

Consider claims 13, 20, 23 (Currently Amended) A method of claims 7, 5, 22, Buhrmann, as modified by Lee, teaches wherein the mobile station detects that it is in the localized service area by: comparing a computed geographic location with a stored geographic definition of the localized service area, and determining the mobile station is located in the localized service area when the computed geographic location is within the stored geographic definition of the localized service area (*see Lee, col 1 lines 50-60, col 2 lines 23-35, col 3 lines 5-25, col 6 lines 4-40, the mobile phone independently identifies its current location by comparing the received system IDs, or network IDs or group IDs of the cellular network with its previous stored information in its memory*).

Consider claims 14, 21, 24, (Currently Amended) A method of claims 13, 20, 22, Buhrmann, as modified by Lee, teaches:

receiving control information from a plurality of base stations at the mobile station, the control information including geographic coordinates of each respective one of the base stations; and averaging the geographic coordinates of the base stations at the mobile station to obtain geographic coordinates of the computed geographic location (*Lee, col 1 lines 50-60, col 2 lines 23-35, col 3 lines 5-25, col 6 lines 4-40, the mobile phone independently identifies its current location by comparing received system IDs, or network IDs or group IDs of the cellular network with its previous stored information in its memory*).

Consider claim 16, (Previously Presented) A method of claim 7, wherein the message is either a short message service message, an unstructured supplementary service data message, or a dual tone multi-frequency-coded message (*Lee, col 4 lines 35-67*).

Consider claim 17, (Previously Presented) A method of claim 7, wherein the message is sent to the base station in conjunction with a telephone call or a data call (*Lee, col 3 lines 5-25, col 4 lines 35-67*).

Consider claim 18, (Currently Amended) A method of claim 7, wherein the server selection including a service of receiving announcements specific for the localized service area (*Buhrmann, col 7 lines 1-67, col 8 lines 1-65*).

Consider claim 19, (Previously Presented) A method of claim 7, wherein the localized service area is an airport or a cafeteria (*Buhrmann, col 7 lines 1-67, col 8 lines 1-65*).

Consider claim 25, (New) A method of claim 7, wherein the computed geographic location of the mobile station includes computed geographic coordinates (*Buhrmann, col 4 lines 45-50*).

4. **Claim 6** is rejected under 35 U.S.C. 103(a) as being unpatentable over **Buhrmann et al. (US Patent No. 5,950,125)** in view of **Lee et al. (US Patent No. 5,974,328)** and further in view of **Alperovich et al. (US Patent No. 5,819,180)**.

Consider claim 6, (Previously Presented) Buhrmann, as modified by Lee, further teaches the apparatus is a mobile phone (*Buhrmann, col 7 lines 1-15*).

Buhrmann, as modified by Lee, does not teach the least one memory includes a removable memory.

Alperovich teaches telecommunications network based upon mobile subscriber's location and discloses SIM card is used as a detachable memory for storing necessary subscriber information (see *Alperovich, col 1 lines 15-35, col 3 lines 5-40*), thus Alperovich discloses a removable memory unit. Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify teachings of Buhrmann, as modified by Takeshi, by combining teachings of Alperovich of a mobile device uses a SIM card as a removable memory unit for storing necessary information so make the mobile device replaceable when needed with the necessary information is still preserved and protected in the removable SIM card.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY C. HO whose telephone number is (571)270-1108. The examiner can normally be reached on Monday - Friday, 8:00 a.m. - 5:00 p.m., EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Huy C Ho/
Examiner, Art Unit 2617

/Patrick N. Edouard/

Supervisory Patent Examiner, Art Unit 2617